

CARSON RIVER BASIN, UPPER CARSON RIVER BASIN

10308794 BRYANT CREEK BELOW CONFLUENCE, NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°44'12", long 119°38'39", in SW ¼ SW ¼ sec.2, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on left bank, 4.4 mi north of State Highway 89, and 7.5 mi northeast of Markleeville.

DRAINAGE AREA.—12.4 mi².

PERIOD OF RECORD.—November 1998 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 6,300 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 44 ft³/s, Apr. 19, 1999, gage height, 5.35 ft, maximum gage height, 7.39 ft, Nov. 12, 2000, backwater from ice; minimum daily, 0.54 ft³/s, Aug. 18, 2003.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 40 ft³/s or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 19	1545	42	5.33

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.63	1.6	1.0	1.4	2.1	2.4	e3.0	2.6	1.5	1.1	0.73	0.75
2	0.76	1.5	1.1	1.5	2.3	2.3	e2.2	2.4	1.5	1.1	0.73	0.80
3	0.69	1.5	1.2	1.6	2.5	2.3	e2.2	2.3	1.4	0.96	0.75	0.90
4	0.68	1.2	1.0	e1.6	1.9	2.4	e3.6	2.2	1.3	0.88	0.78	0.89
5	0.66	1.3	0.98	e1.5	2.0	2.6	e4.2	2.3	1.2	0.81	0.77	0.88
6	0.72	1.1	1.3	e1.5	2.2	3.7	e4.4	2.3	1.3	0.89	0.77	0.90
7	0.74	1.1	1.6	e1.6	2.0	4.9	e3.1	2.1	1.2	0.97	0.89	0.90
8	0.73	1.1	e1.6	1.8	2.0	6.1	e2.8	2.1	1.2	0.87	0.86	0.88
9	0.70	1.3	e1.6	1.8	2.0	7.4	e2.7	2.2	1.3	0.97	0.81	0.83
10	0.82	1.8	1.5	1.7	1.9	8.0	e2.7	2.2	1.3	0.98	0.84	0.81
11	0.89	1.8	e1.5	1.8	2.0	7.4	e2.8	2.4	1.3	1.00	0.81	0.74
12	0.88	1.9	e1.5	1.8	2.0	7.8	e2.5	2.1	1.0	0.95	2.1	0.73
13	0.88	1.8	e1.7	1.9	2.2	8.4	e2.5	2.1	0.98	0.97	1.3	0.74
14	0.85	1.4	2.1	2.1	2.1	11	e2.7	1.9	0.97	0.93	0.94	0.77
15	0.87	1.4	e2.0	2.1	2.0	12	e2.3	1.9	0.91	0.93	0.95	0.83
16	0.87	1.4	e2.0	e2.1	2.3	11	3.5	1.9	0.92	0.95	1.0	0.82
17	0.88	1.8	e2.0	e2.1	2.5	11	3.7	1.9	1.2	1.0	0.86	0.79
18	0.97	1.6	e2.0	e2.1	2.5	17	3.7	1.8	0.86	0.94	0.86	0.85
19	1.1	1.8	1.9	e2.1	2.2	21	3.3	1.9	0.96	1.00	0.87	0.96
20	1.0	1.7	1.4	e2.1	2.1	22	3.1	1.8	0.98	1.0	1.7	0.98
21	0.98	e1.5	1.4	1.9	2.1	18	3.2	1.9	1.1	1.00	1.1	0.97
22	1.0	1.1	1.4	e1.8	2.1	16	3.6	1.9	1.1	1.1	1.00	0.97
23	1.0	e1.1	0.94	e1.9	2.0	13	3.3	1.8	1.5	0.98	0.92	1.00
24	1.2	e1.1	1.2	1.9	2.0	10	3.1	1.8	1.6	0.83	0.89	1.1
25	1.3	e1.1	1.0	1.8	2.3	9.6	3.2	1.8	1.5	0.87	0.91	1.1
26	1.3	1.1	1.1	1.9	2.8	7.7	3.1	1.7	1.2	0.78	0.99	1.0
27	1.4	1.2	e1.1	1.8	2.7	5.7	3.0	1.8	1.2	0.76	1.0	0.91
28	1.5	1.2	e1.1	1.8	2.3	4.8	2.7	2.8	1.1	0.79	1.1	0.91
29	1.5	1.1	e1.1	1.8	2.9	4.6	3.0	1.9	1.2	0.73	1.1	0.96
30	1.6	1.0	1.4	1.8	---	e4.9	2.8	1.7	0.98	0.75	1.0	1.0
31	1.6	---	1.3	1.8	---	e4.0	---	1.6	---	0.76	0.83	---
TOTAL	30.70	41.6	44.02	56.4	64.0	269.0	92.0	63.1	35.76	28.55	30.16	26.67
MEAN	0.99	1.39	1.42	1.82	2.21	8.68	3.07	2.04	1.19	0.92	0.97	0.89
MAX	1.6	1.9	2.1	2.1	2.9	22	4.4	2.8	1.6	1.1	2.1	1.1
MIN	0.63	1.0	0.94	1.4	1.9	2.3	2.2	1.6	0.86	0.73	0.73	0.73
AC-FT	61	83	87	112	127	534	182	125	71	57	60	53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003	2004
MEAN	1.50	1.83	1.89	2.54	2.88	5.38
MAX	2.47	2.59	2.48	3.26	4.78	8.68
(WY)	2000	2000	2000	1999	1999	2004
MIN	0.99	1.39	1.28	1.77	2.06	3.53
(WY)	2004	2004	2003	2001	2001	2001

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	902.43		781.96			
ANNUAL MEAN	2.47		2.14		2.29	
HIGHEST ANNUAL MEAN					2.79	
LOWEST ANNUAL MEAN					1.89	
HIGHEST DAILY MEAN	11	Mar 26	22	Mar 20	29	Apr 21 1999
LOWEST DAILY MEAN	0.54	Aug 18	0.63	Oct 1	0.54	Aug 18 2003
ANNUAL SEVEN-DAY MINIMUM	0.70	Sep 30	0.70	Oct 1	0.69	Aug 16 2002
MAXIMUM PEAK FLOW			42		44	
MAXIMUM PEAK STAGE			5.33		7.39	
ANNUAL RUNOFF (AC-FT)	1790		1550		1660	
10 PERCENT EXCEEDS	5.9		3.2		4.4	
50 PERCENT EXCEEDS	1.6		1.5		1.8	
90 PERCENT EXCEEDS	0.81		0.83		0.90	

e Estimated.